

CLAIMS

1. A resin-coated steel pipe with superior mechanical strength, including an ability to slide, wherein an alloy resin which is a mixture of a styrene-based resin and a crystalline engineering plastic is coated over an outer peripheral surface of a thin-walled steel pipe and is bonded thereto by an adhesive, and said crystalline engineering plastic having a thickness necessary to exhibit a required mechanical strength, including said ability to slide, is coated over an outer peripheral surface of said coated resin such that said resin-coated steel pipe has a double coated structure with a uniform cross-sectional form along an axial direction thereof.

2. The resin-coated steel pipe with superior mechanical strength including slidability according to claim 1, wherein said styrene-based resin is a resin selected from a group consisting of AAS resins, ABS resins and AES resins, and said crystalline engineering plastic is a resin selected from a group consisting of PBT resins, nylon resins and polyacetal resins.

3. The resin-coated steel pipe with superior mechanical strength, including said ability to slide, according to claim 1 or 2, wherein said thin-walled steel pipe is circular in section,

said alloy resin bonded and coated over said outer peripheral surface of said thin-walled steel pipe has furrows and ridges formed alternately in a circumferential direction of said thin-walled steel pipe, said furrows and said ridges extending in an axial direction of said thin-walled steel pipe such that said thin-walled steel pipe with said alloy resin coated thereon has a uniform cross-

sectional form along an axial direction thereof, each of
said ridges having a groove formed in an outer peripheral
surface thereof and extending in said axial direction of
said thin-walled steel pipe, said groove being capable of
5 accommodating said crystalline engineering plastic for a
thickness and width necessary to exhibit a required
mechanical strength, including the ability to slide, and

said crystalline engineering plastic coated over said
outer peripheral surface of said alloy resin having a

10 thickness such that said crystalline engineering plastic
coated over said grooves in respective ridges of said alloy
resin has a thickness greater than that coated on other
regions, and that said resin-coated steel pipe is spline-
shaped as a whole.